



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

BRACHYTHECIUM NELSONI n. sp.

By A. J. GROUT.

Plants with the facies of undersized *Brachythecium rivulare*, but not dendroid. Stems 5-8 cm. long, irregularly to subpinnately branching. Stem leaves erect-spreading, triangular-ovate, long and slenderly acuminate, 1.5-2 x about 0.6 mm., slightly concave with margins turned inwards towards the apex, slightly serrulate at extreme apex. Branch leaves similar to the stem leaves but smaller and usually proportionately narrower, the upper often serrate above, decurrent, with a large area of abruptly enlarged and inflated alar cells which are separated from the ordinary cells by a narrow band of much smaller oblong cells. These alar cells are much like those of *B. rivulare*, except that they occupy a larger area; median and apical cells much as in *B. rivulare*, costa stout at base, rapidly narrowing in the lower portion, extending about two-thirds the length of the leaf. Perichaetial leaves slightly costate.

Apparently dioicous. Sporophyte not differing essentially from that of *B. rivulare*.

La Plata Mines, Wyoming, Aug. 25, 1898. Coll. Elias Nelson, no. 5172. Com. J. M. Holzinger. Apparently growing on humus. Type in herb. A. J. G.

This plant is very close to *B. rivulare* but differs distinctly in its triangular long acuminate leaves, which are different from any I have ever seen on any of the hundreds of specimens of *B. rivulare* which I have examined. The inflated alar cells are also much more numerous, extending well toward the costa.

DESCRIPTION OF PLATE VII.

a, Plant of *B. Nelsoni* x 1½. b & c, Capsules x 8. d & e, Stem leaves of *B. Nelsoni*: d' & e', of *B. rivulare*. f, g, & h, Branch leaves from upper middle, lower middle, and base respectively of branch of *B. Nelsoni*: f', g', & h', same of *B. rivulare*. k, Large branch leaf of *B. Nelsoni*. l, Alar cells of *B. Nelsoni*: l', of *B. rivulare*. m, Median cells of *B. Nelsoni*: m', of *B. rivulare*.

LUNULARIA CRUCIATA IN FRUIT.

By JULIA T. SHINN

Although described as always sterile in America, *Lunularia cruciata* has yielded to the "glorious climate of California" and quantities of the tiny white tufts that conceal the young archegonia were to be seen during this last April and May in the great lath-house of the California Nursery Company at Niles. There, as in many large American greenhouses, the *Lunularia* is a great nuisance, rapidly covering the surface of the half-buried pots and of the earth between them. The air of the lath-house is of course fresher than in a glass house, the ground is kept damp and it is rather darker than under glass. This house is used principally as a shelter for camellias, azaleas and the more tender conifers such as araucarias. Possibly the conditions suitable to these plants approach those of the European habitats of the *Lunularia*.

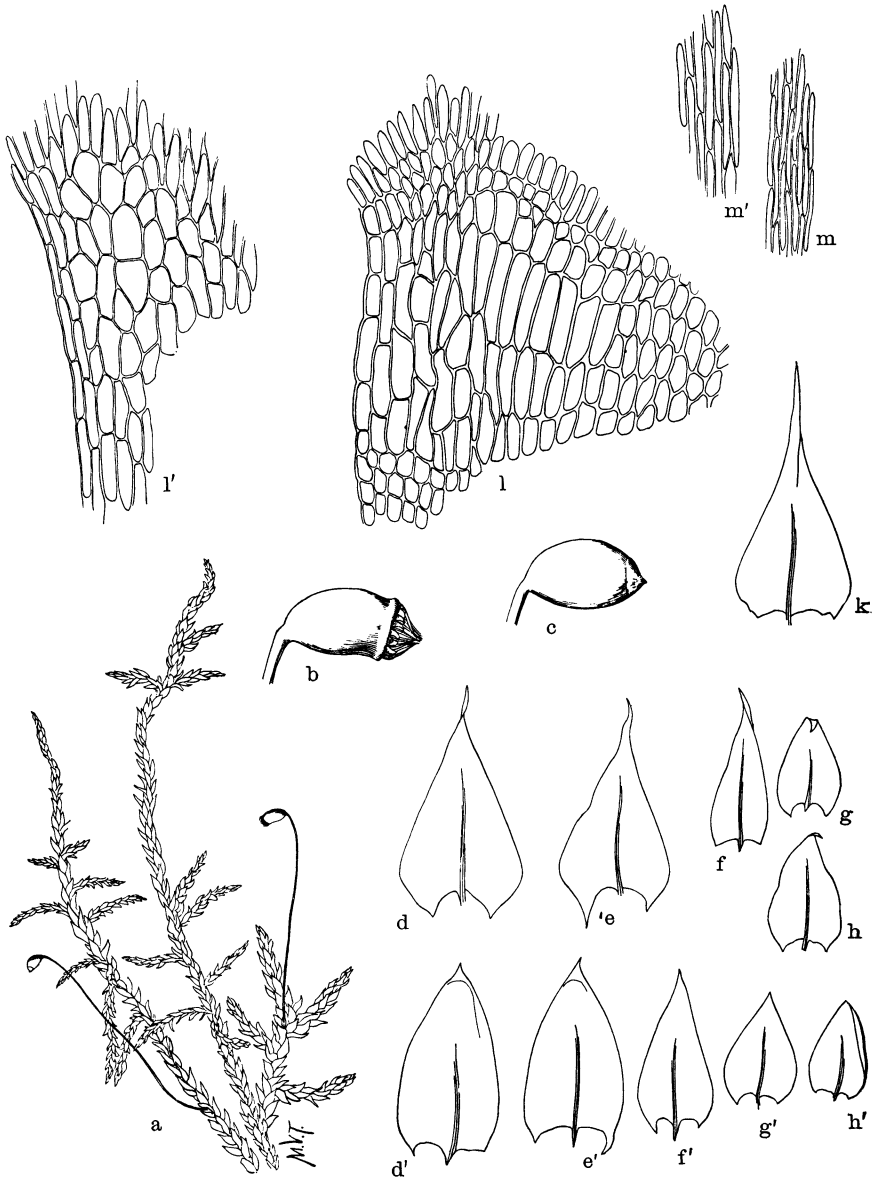


PLATE VII.—*BRACHYTHECIUM NELSONI* n. sp.